

Title (en)

Method and apparatus for switching code division multiple access modulated beams

Title (de)

Verfahren und Gerät zur Schaltung von Spreizspektrumkodemultiplexvielfachzugriffmodulierten Strahlen

Title (fr)

Méthode et appareil pour commuter des pinceaux modulés à spectre étalé et à accès multiple par division de codes

Publication

EP 0803992 A2 19971029 (EN)

Application

EP 97106664 A 19970422

Priority

US 63516296 A 19960423

Abstract (en)

In a code division switch each of a plurality of uplink CDMA modulated RF beams, each including a plurality of uplink traffic channels, are down converted to IF and overspread with a new orthogonal code having a spreading rate N times that of the spreading code of the uplink CDMA modulated RF beam. All of the overspread beams are combined into a single combined IF stream. The individual traffic channels are extracted from the combined IF stream by de-overspreading the stream with orthogonal codes and despreading with beam and traffic channel specific orthogonal codes. All traffic channels are respread with downlink beam codes and downlink orthogonal traffic channel codes and joined onto selected ones of downlink CDMA modulated IF beams having common destinations with the included traffic channels. Downlink CDMA modulated IF beams are up converted to RF frequency and transmitted to selected destinations. <IMAGE>

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H04B 7/204

IPC 8 full level

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CPC (source: EP KR US)

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Cited by

US6954440B2; US7620031B1; US8243708B2; US8908669B2

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EP 0803992 A2 19971029; **EP 0803992 A3 20001018**; AU 1893997 A 19971030; BR 9701884 A 19980929; CA 2200241 A1 19971023; CA 2200241 C 20011030; CN 1175137 A 19980304; JP 2947771 B2 19990913; JP H1093526 A 19980410; KR 100257172 B1 20000515; KR 970072738 A 19971107; MX 9702897 A 19971031; SG 74584 A1 20000822; US 5995497 A 19991130

DOCDB simple family (application)

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